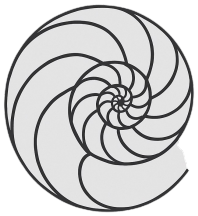

Structural Alignment Table

Mapping Productivity Frontiers and Mobility Constraints in the United States (2025-2035)

hn.cbp

Pseudonymous Author

Introduction

This document presents the Structural Alignment Table for the Productivity Frontier Series (PFS) and the Structural Mobility Trap Series (SMTS), situated within the macro-structural framework established by the Structural Futures Series (SFS).

The purpose of this alignment is to make explicit the internal coherence of the system developed across these series. Rather than treating productivity, mobility, and regional

dynamics as separate analytical domains, the alignment renders visible how they emerge from a shared structural configuration operating over the 2025-2035 horizon in the United States.

The table is designed as a structural navigation device. It allows readers to move across series according to underlying mechanisms and constraint propagation, rather than by publication sequence or topical categorization.

1 Structural Alignment Table

Structural Axis (SFS-02)	**PFS Alignment**	**SMTS Alignment**	**Systemic Interpretation**
Frontier–Diffusion Gap	PFS-01: Absorptive Capacity Shortfall	SMTS-03: Labor Mobility & Regional Reallocation	Frontier innovation accelerates faster than system-wide absorption. Productivity gains stall not due to weak innovation, but weak transmission mechanisms.
Capital–Labor Asymmetry	PFS-02: Workforce Transformation Bottlenecks	SMTS-03 / SMTS-04	Capital reallocates faster than labor adapts. Structural unemployment and wage dispersion emerge despite headline growth.
Spatial Concentration	PFS-03: Geography of Innovation	SMTS-01: Housing Supply & Opportunity	Innovation and productivity cluster geographically. Opportunity becomes spatially gated rather than merit-based.
Organizational Friction	PFS-04: Organizational Friction	–	Firms struggle to redesign internal processes fast enough. Diffusion failure occurs inside firms, not only across sectors.

Structural Axis (SFS-02)	PFS Alignment	SMTS Alignment	Systemic Interpretation
Infrastructure Constraint	PFS-05: Infrastructure & Digital Backbone	SMTS-02: Urban Infrastructure Drag	Legacy physical infrastructure lags digital and capital flows. Physical systems cap otherwise feasible productivity gains.
Household Cost Load	–	SMTS-04: Care Economy Cost Burden	Rising fixed household costs reduce adaptive capacity. Mobility and reskilling are suppressed by household-level constraints.
Risk Aversion Lock-in	–	SMTS-05: Healthcare Affordability Barrier	Economic and health-related insecurity reduce risk-taking, acting as a structural brake on mobility.

2 Structural Alignment Note

Purpose and Scope

This alignment formalizes the relationship between productivity frontiers and mobility constraints as outcomes of the same macro-structural system. Productivity formation and labor mobility are not independent processes. They are jointly shaped by diffusion limits, institutional friction, capital concentration, organizational capacity, infrastructure availability, and household cost structures.

The alignment does not seek to exhaustively restate arguments developed in individual papers. Its function is structural: to clarify how distinct analytical threads are anchored in a common framework and how constraints observed at different levels reinforce one another over time.

Analytical Boundaries

Certain forces that materially affect long-horizon outcomessuch as individual agency, identity stabilization, governance legitimacy, and meaning formationare intentionally not resolved

within this alignment.

These forces operate at a different analytical layer. They are addressed in complementary series focused on human capability, governance architectures, democratic cohesion, and systemic resilience. Their absence from the table should therefore be understood as a boundary condition, not as an omission.

The alignment preserves analytical clarity by maintaining separation between:

- productivity and diffusion mechanisms,
- mobility and cost-transmission mechanisms,
- and higher-order cognitive, institutional, and normative systems.

This separation is a design choice, not a limitation.

Reading the Alignment

The table should be read in two directions.

Vertically, it traces how macro-level structural signals propagate into productivity constraints and subsequently translate into mobility frictions. This reading emphasizes causality and path dependence.

Horizontally, it reveals how multiple constraintsoriginating in different domainsconverge on similar systemic outcomes, such as stalled diffusion, regional divergence, and adaptive fatigue. This reading emphasizes reinforcement effects and structural coupling.

Together, these readings illustrate that many observed economic outcomes are not isolated failures, but predictable manifestations of a coherent structural configuration.

Implications

The alignment underscores a central implication: interventions targeting isolated symptoms are unlikely to produce durable effects. Workforce programs without housing reform, infrastructure investment without organizational redesign, or innovation incentives without diffusion capacity all operate against the structure rather than with it.

Structural coherence matters. Productive adjustment, mobility restoration, and long-horizon resilience require interventions that operate across aligned layers of the system.

Closing Note

This alignment table is not a conclusion. It is an organizing instrument.

Subsequent papers within each series deepen specific components of the system while remaining anchored to the same structural logic. Additional series extend the framework into adjacent analytical domains without altering the underlying architecture presented here.

Related Publications and Series:

Structural Futures Series

- SFS-02 U.S. Structural Futures: 2020-2035
  Archived on Zenodo (DOI): zenodo.17867593

Productivity Frontier Series (PFS)

- Series overview and related papers:
  Archived on Zenodo: zenodo.org/communities/productivity-frontier-series

Structural Mobility Trap Series (SMTS)

- Series overview and related papers:
  Archived on Zenodo: zenodo.org/communities/structural-mobility-trap

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